

SEQUENCE LISTING

<110> Consortium fuer elektrochemische Industrie GmbH

<120> Cells Overexpressing Lipoyl-Protein Ligase-B Gene For Fermentative Production of R-Alpha-Liponic Acid.

<130> Co10219

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<170> PatentIn Ver. 2.0

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<212> DNA

<213> Escherichia coli

<220>

<221> CDS

<222> (16)..(654)

<300>

<301> Reed, Kelynn E.

Cronan Jr., John E.

<302> Lipoic Acid Metabolism in Escherichia coli: Sequencing
and Functional Characterization of the lipA and lipB
Genes

<303> J. Bacteriol.

<304> 175

<305> 5

<306> 1325-1336

<307> 1993

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ctt cag cct tac gag cca atc tcc cag gct atg cat gaa ttc acc gat 99

Leu Gln Pro Tyr Glu Pro Ile Ser Gln Ala Met His Glu Phe Thr Asp

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Thr Arg Asp Asp Ser Thr Leu Asp Glu Ile Trp Leu Val Glu His Tyr
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Pro Val Phe Thr Gln Gly Gln Ala Gly Lys Ala Glu His Ile Leu Met
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Pro Gly Asp Ile Pro Val Ile Gln Ser Asp Arg Gly Gly Gln Val Thr
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Tyr His Gly Pro Gly Gln Gln Val Met Tyr Val Leu Leu Asn Leu Lys
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Arg Arg Lys Leu Gly Val Arg Glu Leu Val Thr Leu Leu Glu Gln Thr
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Val Val Asn Thr Leu Ala Glu Leu Gly Ile Glu Ala His Pro Arg Ala
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Asp Ala Pro Gly Val Tyr Val Gly Glu Lys Lys Ile Cys Ser Leu Gly
125 130 135 140

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Leu Arg Ile Arg Arg Gly Cys Ser Phe His Gly Leu Ala Leu Asn Val
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Asn Met Asp Leu Ser Pro Phe Leu Arg Ile Asn Pro Cys Gly Tyr Ala
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175 180 185

aat aat att gct cca cgt tta ctg gaa aat att tta gcg cta cta aac 627
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Gln Gly Gln Ala Gly Lys Ala Glu His Ile Leu Met Pro Gly Asp Ile
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Pro Val Ile Gln Ser Asp Arg Gly Gly Gln Val Thr Tyr His Gly Pro
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Gly Val Arg Glu Leu Val Thr Leu Leu Glu Gln Thr Val Val Asn Thr
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Leu Ala Glu Leu Gly Ile Glu Ala His Pro Arg Ala Asp Ala Pro Gly
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Val Tyr Val Gly Glu Lys Lys Ile Cys Ser Leu Gly Leu Arg Ile Arg
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Arg Gly Cys Ser Phe His Gly Leu Ala Leu Asn Val Asn Met Asp Leu
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Ser Pro Phe Leu Arg Ile Asn Pro Cys Gly Tyr Ala Gly Met Glu Met
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